

b) at least 17 contiguous amino acids from a mature coding portion of SEQ ID NO: 4; or

c) at least 17 contiguous amino acids from a mature coding portion of SEQ ID NO: 5.

A₂
Hubb

3. (Amended) The [polynucleotide] polynucleotide of claim 1, which hybridizes under stringent wash conditions of at least 65°C., less than about 150 mM salt to the complement of:

- a) the open reading frame of SEQ ID NO: 1; or
- b) the open reading frame of SEQ ID NO: 3; and
- c) encodes amino residues 155-164 of SEQ ID NO: 2.

4. (Amended) [The polynucleotide of claim 3,] An isolated or recombinant polynucleotide encoding an antigenic polypeptide comprising:

- a) at least 67 contiguous nucleotides of a coding portion of SEQ ID NO: 1, wherein said contiguous nucleotides are from nucleotides 466-555 of SEQ ID NO: 1; or
- b) at least 67 contiguous nucleotides of a coding portion of SEQ ID NO: 3, wherein said contiguous nucleotides are from nucleotides 580-670 of SEQ ID NO: [1] 3.

A₃ wt
Hubb

8. (Amended) Said polynucleotide of claim 1a), wherein said contiguous amino acids number [20] 40 or 45.

9. (Amended) Said polynucleotide of claim 1b), wherein said contiguous amino acids number [30] 20, 30, 35, or 40.

10. (Amended) Said polynucleotide of claim 1c), wherein said contiguous amino acids number [35] 20, 30, 35, or 40.